

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Kasuhisa FUJISAWA, et al.

SERIAL NO: New Application

GAU:

FILED: Herewith

EXAMINER:

FOR: BINDER FOR POWDER METALLURGY, MIXED POWDER FOR POWDER METALLURGY AND METHOD FOR PRODUCING SAME

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**


- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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DOCKET NO.: 249102US0/dct

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**STATEMENT OF RELEVANCY**

**Reference AO (JP 4-236402) on PTO-1449:**

PURPOSE: To obtain a treatment method capable of forming rare earth-iron based alloy powder which is suitable for manufacturing a compression bonded magnet sufficient for mechanical strength and is excellent in the powder-supplying properties to a press machine.

CONSTITUTION: Nd-Fe-Co-B based alloy is fused by using high frequency electric power, spouted against a rotary roll, and quenched. Thereby an alloy ribbon of 2mm in width and 20  $\mu$ m in thickness is obtained, and then grinded to be less than or equal to 425  $\mu$ m after heating and cooling. Binder resin (thermosetting epoxy resin, nonaqueous phthalic acid (hardener)) is mixed with the alloy powder, to which high frequency at 0.5-50kHz is applied while mixed by an agitator. Thereby a part of the binder resin is fused and made to cover the alloy powder surface. Rare earth-iron based alloy powder for compression molding is manufactured by cooling the above mixture.

The kind of the hardener is different from those of the present invention.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 249102US0		SERIAL NO. New Application	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Kasuhisa FUJISAWA, et al.			
				FILING DATE March 23, 2004		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                  NO		
	AO	4-236402	8/25/92	JAPAN		X	
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AW						
	AX						
	AY						
	AZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							